



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search Report (Form PCT/ISA/220) as well as the second of transmittal of International Search						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US 98/15955	31/07/1998					
Applicant THE PROCTER & GAMBLE COMP	ANY et al.					
This International Search Report has bee according to Article 18. A copy is being tra	_	uthority and is transmitted to the applicant				
	a copy of each prior art document cited in th	is report.				
1. Basis of the report						
	international search was carried out on the bess otherwise indicated under this item.	asis of the international application in the				
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of	f the international application furnished to this				
was carried out on the basis of the	e sequence listing:	international application, the international search				
contained in the international application in written form.						
	filed together with the international application in computer readable form.					
	this Authority in written form.					
	o this Authority in computer readble form. osequently furnished written sequence listing	does not go beyond the disclosure in the				
	s filed has been furnished.	3 ,				
the statement that the info furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been				
2. Certain claims were fou	nd unsearchable (See Box I).					
3. Unity of invention is lac	king (see Box II).					
4. With regard to the title,						
X the text is approved as su	ibmitted by the applicant.					
the text has been establis	shed by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as su		ority as it appears in Box III. The applicant may,				
6. The figure of the drawings to be pub						
as suggested by the appl		None of the figures.				
because the applicant fail						
	characterizes the invention.					

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C11D3/37 C11D3/00 C11D1/62 C1iD1/44 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 6 C11D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5 460 736 A (TRINH TOAN ET AL) X 1 - 3.724 October 1995 see claims 1,12; example VII WO 95 32272 A (PROCTER & GAMBLE) X 1-3,730 November 1995 see claims 1,10; examples XI-B,C,E X GB 2 303 146 A (PROCTER & GAMBLE) 1-3,712 February 1997 see claims 1,3,6,9; examples 1F,2H,3L,4MN X WO 98 17758 A (HALL ROBIN GIBSON ; PROCTER 1,2,7-11& GAMBLE (US)) 30 April 1998 see page 1, paragraph 5; claims; example X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 March 1999 09/04/1999 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Loiselet-Taisne, S

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ternational Application No.
PCT/US 98/15955

		PC1/US 98	0/ 15955		
	(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
A	DATABASE WPI Section Ch, Week 8750 Derwent Publications Ltd., London, GB; Class D25, AN 87-352690 XP002096170 & JP 62 256899 A (MIYOSHI YUSHI KK) , 9 November 1987 see abstract		10,11		
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ternational Application No PCT/US 98/15955

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5460736	A	24-10-1995	AU BR CN CZ EP JP WO	3216995 A 9509285 A 1168689 A 9701033 A 0785977 A 10506966 T 9611248 A	02-05-1996 18-11-1997 24-12-1997 17-09-1997 30-07-1997 07-07-1998 18-04-1996
WO 9532272	Α	30-11-1995	AU BR CA EP JP US	2387095 A 9507691 A 2189749 A 0760846 A 10500717 T 5565145 A	18-12-1995 23-09-1997 30-11-1995 12-03-1997 20-01-1998 15-10-1996
GB 2303146	A	12-02-1997	GB CA EP WO CA CA EP EP GB GB GB WO WO	2303141 A 2226622 A 0843715 A 9703162 A 2226620 A 2226628 A 2226629 A 0862607 A 0842247 A 0856044 A 2303143 A 2303144 A 2303145 A 2303147 A 9703158 A 9703158 A 9703157 A	12-02-1997 30-01-1997 27-05-1998 30-01-1997 30-01-1997 30-01-1997 09-09-1998 20-05-1998 05-08-1998 12-02-1997 12-02-1997 12-02-1997 30-01-1997 30-01-1997 30-01-1997 30-01-1997
WO 9817758	A	30-04-1998	GB GB GB AU WO WO WO WO WO WO WO WO	2318363 A 2318362 A 2323385 A 4666897 A 9743367 A 9817751 A 9817752 A 9817753 A 9817754 A 9817755 A 9817755 A 9817766 A 9817767 A 9817768 A 9817769 A 9745513 A 9817760 A	22-04-1998 22-04-1998 23-09-1998 15-05-1998 15-05-1998 20-11-1997 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998 30-04-1998

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PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant	's or ag	gent's file reference	İ		0			
CM1882F/JH		FOR FURTHER AC	TION		ation of Transmittal of Internation Examination Report (Form PC			
International application No.		International filing date (d	lay/month/	year)	Priority date (day/month/year	r)		
PCT/US	PCT/US98/1.5955		31/07/1998			31/07/1998		
Internatio C11D3/		tent Classification (IPC) or na	tional classification and IPC	;				
					RE	CEIVED		
Applicant					NO	/ 1 / 0004		
THE PF	ROCT	ER & GAMBLE COMP	ANY et al.		NOV	/ 1 6 2001		
1. This international preliminary examination report has been prepared by this literal on all liminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This	2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
Thes	se ann	exes consist of a total of	2 sheets.					
						RECEIVED		
						MOV 2 3 /UUI		
3. This	report	contains indications relat	ing to the following items	s:		TC 1700		
ı	\boxtimes	Basis of the report				10 1100		
II		Priority						
111		Non-establishment of op-		elty, inve	ntive step a	nd industrial applicability		
IV		Lack of unity of invention						
V	×	Reasoned statement un citations and explanation	der Article 35(2) with reg ns suporting such staten	gard to no nent	ovelty, inver	ntive step or industrial appli	icability;	
VI		Certain documents cited						
VII	×	Certain defects in the int						
VIII	×	Certain observations on	the international applica	ation				
Date of su	bmissic	on of the demand	T	Date of co	mnletion of th	nis report		
Date of submission of the demand Date of completion of this report					iio reputt			
07/02/2000					22.12.2000			
	Name and mailing address of the international				l officer		OF MEDICAL MILES	
preliminary examining authority: European Patent Office							(2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
D-80298 Munich								

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US98/15955

I. Basis of the report

1.	res the	report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in conse to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to report since they do not contain amendments (Rules 70.16 and 70.17).): cription, pages:						
	1-6	2	as originally filed					
	Cla	ims, No.:						
	1-1	1	as originally filed					
2.	Wit lang	h regard to the lang i guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.					
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a ti	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a tr 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule					
		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	ernational application in written form.					
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subseque	ently to this Authority in computer readable form.					
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure if the international application as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The	The amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):						

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No: Claims 4-6

Claims 4-6 Claims 1-3, 7-11

Inventive step (IS)

Yes: No: Claims

Industrial applicability (IA)

Yes:

Claims 4-6 Claims 1-11

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ITEM V.:

The following documents are mentioned in this report.

D1= US-A-5 460 736

D2= WO 95 32272 A

D3= GB-A-2 303 146

D4= WO 98 17758 A

D5= "The Condensed Encyclopedia of Surfactants" by M. and I. Ash, Edward

Arnold ed., 1989, page 497: VARONIC U-250

A copy of D5 is annexed to this report.

Novelty, Article 33(2) PCT

Fabric care compositions comprising

- at least 1% of a polyamine-functional polymer or a nitrogen containing dye fixing agent and
- a water-soluble cationic surfactant or a polyalkoxylated alkyl amine surfactant capable of reducing or inhibiting scum formation

were already known from the prior art.

(see D1: example VII, claims 12 and 13, column 1, lines 20-45, column 6, lines 44-54, column 7, lines 24-52, column 9, lines 7-12, column 14, lines 29-64;

D2: examples XI B,C and E, claims, page 1, line 23 to page 2, line 4;

D3: examples 1 C,D,F 2 H, 3 K,L, 4 M,N, 5 Q,R,S, 8 Z, 9 AE,AI, claims;

D4: all examples, page 1, claims)

Therefore, the subject-matter of independent claim 1 appears to lack novelty (Article 33(2) PCT).

Moreover, the additional features of dependent claims 2, 3 and 7 to 9 are known from the above mentioned documents.

Thus, also these claims lack novelty.

Furthermore, the use of surfactants for reducing or inhibiting scum formation by means of water-soluble cationic surfactants or polyalkoxylated amine surfactants in compositions comprising a polyamine-functional polymer or a dye fixing agent was already explicitly or implicitly known from D1 (see column 14, lines 26-64, wherein VARONIC U-250, an alkoxylated tallow amine (see D5) and quaternary ammonium compounds are cited as scum dispersants and column 8, lines 19-28, wherein the water-soluble cationic surfactants are taught to be able to protect the diester softeners from interaction with anionic surfactants, thus inhibiting the formation of scum) and D4, page 1.

Therefore, the subject-matter of independent claim 10 and dependent claim 11 also lack novelty.

Inventive step, Article 33(3) PCT

Since it was already known from D1 to use alkoxylated fatty amines as scum dispersants, it was obvious for a skilled person to add this type of components to the compositions illustrated in D1.

Therefore, the subject-matter of dependent claims 4-6 cannot involve an inventive step.

ITEM VII.:

Independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT. which in the present case would be appropriate, with those features known in combination from the prior art (one of documents D1 or D4) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).

Independent claims should therefore be redrafted accordingly. If, however, the applicant is of the opinion that the two-part form would be inappropriate, then reasons therefor should be provided.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 to D4 is not mentioned in the description, nor are these documents identified therein.

On page 47, line 23 the description relates to the not published PCT/US97/01644.

Metric units should be used beside "gallon", "lb", "psia", "inches Hg", "cu.ft" on pages 51, 52, 54 and 55 (Rule 10.1(a) PCT).

Use claim 11 refers back to composition claim 9, which is not considered to be correct.

ITEM VIII.:

The scope of claim 1 should be clarified by specifying that the dye fixing agent is not a fabric softener or a polyamine-functional agent as specified in the passage bridging pages 17 and 18.

Claim 10 fails to indicate the type of surfactants necessary for carrying out the claimed use, i.e. which surfactant must be selected from the classes of claim 1 according to the present description. Therefore, claim 10 fails to indicate an essential feature of the invention. In this respect, it would appear that the invention cannot be carried out throughout the entire scope of this claim (Article 5 PCT).

The same objection applies to claim 11 insofar, as it relates to the use of waterinsoluble cationic softeners. The present invention in fact relates to a combination with water-soluble cationic surfactants, water-insoluble cationic softeners being optionally components and not being indicated in the description as suitable for reducing scum formation.